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10/614,050	07/08/2003	Kang Soo Seo	1740-000010/US	7555
30593 7590 11/28/2007 HARNESS, DICKEY & PIERCE, P.L.C.			EXAMINER	
P.O. BOX 8910)		ZHAO, DAQUAN	
RESTON, VA 20195		•	ART UNIT	PAPER NUMBER
			2621	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/614,050	SEO ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Daquan Zhao	2621				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period value of the provision of the period for reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 Se	eptember 2007.					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) ☐ This action is non-final.					
* * * * * * * * * * * * * * * * * * * *	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-14 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 08 July 2003 is/are: a)☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	☑ accepted or b) ☐ objected to be drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	·					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 9/24/2007 have been fully considered but they are not persuasive.
- 2. Applicant's representative argues, in pages 8-10 of the remark, okada et al fail to teach a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.
- 3. Okada et al teach a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file (e.g. column 80, lines 51-67 and figure 12A, time map table).
- 4. Applicant also disagree with the Examiner's Official Notice of a recording area of 2048 bytes. Murase et al (US 6,285,826 B1) teach in column 3, lines 64-65 that a recording area of 2048 bytes.
- 5. Applicant's representative argues, in pages 7-8 of the remark, claims 1,3,8, and 10 are statutory subject matter.
- 6. MPEP §2106.01(I) further states, regarding *functional* descriptive material, that "a claimed computer-readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software

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and hardware components which permit the data strcture's functionality to be realized, and is thus statutory." Claims 1, 3, 8 and 10 do not present any computer and hardware components which permit the data structure's functionality to be realized. Therefore, claims 1,3, 8, and 10 are not statutory subject matter.

7. Claim Status: claims 13,14 are new.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 1-10 are rejected under 35 U.S.C. 101 because When nonfunctional descriptive material is recorded on some computer-readable medium, in a computer or on an electromagnetic carrier signal, it is not statutory since no requisite functionality is present to satisfy the practical application requirement. Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored on a computer-readable medium, in a computer, or on an electromagnetic carrier signal, does not make it statutory. See Diehr, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in Benson were unpatentable as abstract ideas because "[t]he sole practical application of the algorithm was in connection with the programming of a general purpose computer."). Such a result would exalt form over substance. In re Sarkar, 588 F.2d1330, 1333, 200 USPQ 132, 137 (CCPA 1978) ("[E]ach invention must be evaluated as claimed; yet semantogenic considerations preclude a determination based solely on

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words appearing in the claims. In the final analysis under § 101, the claimed invention, as a whole, must be evaluated for what it is.") (quoted with approval in Abele, 684 F.2d at907, 214 USPQ at 687). See also In re Johnson, 589 F.2d 1070, 1077, 200 USPQ199, 206 (CCPA 1978) ("form of the claim is often an exercise in drafting"). Thus, nonstatutory music is not a computer component, and it does not become statutory by merely recording it on a compact disk. Protection for this type of work is provided under the copyright law.

Claims 1, 3, 8, 10 recite "a recording medium having a data structure". The "data structure" recites in the claims does not meet the definition of IEEE, wherein the definition of data structure is a physical or logical relation among data elements, designed to support specific data manipulation functions. The body of the claims 1, 3, 8, 10 only direct to a plurality of data packets and a plurality of time control information, which fail to shown any physical or logical relationship. The data structure in claims 1,3, 8 and 10 are treated as non-functional descriptive material recited in a recording medium, which is not statutory subject matter.

Claims 2, 4-7, 9 are also affected.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 3, 4, 6, 7, 8, 10, 11, 12, 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Okada et al (US 6,181,870 B1).

For claim 1, Okada et al teach a computer-readable medium having a data structure for managing video data recorded on the computer-readable medium (e.g. figure 6A shows the data structure of video stream recorded on the DVD, column 16, lines 22-60), comprising:

- A data area storing a plurality of data packets including source packets
 of at least video data of a stream including a plurality of clip files
 recorded on the recording medium (e.g. figure 6A, a video stream
 contains plurality of GOP, wherein each GOP contains plurality of
 video packets, column 16, lines 44-60);
- a plurality of time control information areas (e.g. Figure 6H, plurality of GOP contain plurality of video packets, where a PTS and a DTS can be assigned once to each GOP, column 23, lines 26-49), representing decoding time interval information (e.g. interval corresponds to the GOP), each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data

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packets of the stream (e.g. figure 6H, PTS and DTS in one packet header).

a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file (e.g. column 80, lines 51-67 and figure 12A, time map table).

Claims 3, 8,10, 11, 12, 13 and 14 are rejected for the same reasons as discussed in claim 1 above.

For claim 2, Okada et al teach fixed time interval is not greater than 700 milliseconds (column 24, lines 20-56, continuity of DTS and SCRs exhibit the same characteristic, wherein the time stamp gap must not exceed 0.7 seconds).

For claim 6, Okada et al teach each of time control information areas is recorded in a first data packet within said fixed recording area of the recording medium (e.g. figure 6C shows the first video packet in the GOP and figure 6H shows the DTS is in the Packet Header, wherein only the first video packet has a Packet header, and column 23 lines 42-45 teach that the DTS can be in all packet).

For claim 7, Okada et al teach the time control information areas is recorded in an arbitrary one data packet within said fixed recording area of the recording medium (column 23 lines 42-45 teach that the DTS can be in all packet).

For claim 4, Okada et al teach fixed recording area is a sector (e.g. figure 3A and 3 B, column 12, line 42-column 13, line 10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US 6,181,870 B1) as applied to claims 1, 2, 3, 4, 6, 7, 8, 10, 11 and 12 above, and further in view of Yoo et al (US 2002/0,150,392 A1).

See the teaching of Okada et al above.

For claim 9, Okada et al fail to specify fixed packet interval is 10 packets. Yoo et al teach a fixed packet interval is 10 packets (paragraph [0033]). It would have been obvious for one ordinary skill in the art at the time the invention was made to have use 10 packets as a fixed interval in the system disclosed by Okada et al to simply the data process step and reduce the time for data processing.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US 6,181,870 B1) as applied to claims 1, 2, 3, 4, 6, 7, 8, 10, 11 and 12 above.

See the teaching of Okada et al above.

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For claim 5, Okada et al fail to specify the sector has a recording area of 2048 bytes. The examiner takes official notice of a recording area of 2048 bytes since it is well known in the DVD technology. It would have been obvious for one ordinary skill in the art at the time the invention was made to use 2048 bytes for the sector to ensures that the optical pickup can move a constant velocity while performing access within a single zone. By doing so, the recording density of the DVD is raised, and rotation control during recording and reproduction is made easieier.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Owashi et al (US 6,757,478 B2); Yamagishi et al (US 6,141,491).

All grounds of rejection are maintained. Accordingly, THIS ACTION IS MADE FINAL. See MPEG § 706.07 (a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136 (a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing data of this action. In the event a first reply is filed within TWO MONTHS of the mailing data of this action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period. Then the shortened statutory period will expire on the data the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing data of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the data of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daquan Zhao whose telephone number is (571) 270-1119. The examiner can normally be reached on M-Fri. 7:30 -5, alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) of 571-272-1000

Daquan Zhao

Supervisory Patent Examiner